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(54) MODULAR SMIF POD BREATHER, ADSORBENT, AND PURGE CARTRIDGES

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(*) Notice:

This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(57) ABSTRACT

Modular cartridges which may be inserted into and removed from a well or receptacle on the bottom of a pod. The cartridges may be configured to include various types and combinations of valves, filters, and/or conditioning agents. A standalone cartridge replacement station may be provided for inserting and removing various cartridges from one or more of the receptacles on the bottom of a pod while wafers are seated within the pod. The standalone replacement unit may decouple an existing cartridge from the pod by rotating the cartridge from a locked to an unlocked position and then lowering the cartridge out of the pod. Thereafter, the replacement station may insert a new cartridge up into the appropriate receptacle and rotate the cartridge into a locked position in the pod.

17 Claims, 4 Drawing Sheets

